

Series 3^m

Gas Fired, Chimney Vented, Cast Iron Water Boiler

- 84% AFUE
- · Electronic ignition
- Equipped with IQ Control System™
- 70 280 MBH (7 sizes)
- Industry standard tapping locations, allows easy, direct replacement for thousands of existing boiler installations
- Solid, reliable, American-made cast iron heat exchanger, designed to promote turbulent water flow within the section for efficient heat transfer
- Lifetime limited warranty



 Consists of the Intelligent Hydronic Control and IQ Option Panel



- Intuitive self-diagnostics
- Combines high limit, relay, and ignition functions into a single module
- Two customizable integrated switching relays for easy addition of additional heating zone or indirect water heater
- Energy saving "thermal purge", which works by circulating residual warm water (140° or above) in the heating system before firing the boiler

IQ Option Panel

 Enables the easy plug & play installation of optional features such as outdoor reset, LWCO, and high limit

Optional Touchscreen

• LCD displays all boiler settings, diagnostics, and troubleshooting in sentences, not codes





Series 3: Technical Information







Standard Equipment

- · Insulated sleek, modern jacket
- · Integrated draft diverter, damper and connector included
- Heavy gauge 1" and 1-1/2" base insulation
- Intelligent Hydronic Control Simple self-diagnostic control system with 3-digit readout for status settings and errors
- IQ Option Panel, accepts plug & play IQ Option Cards for
- Outdoor reset with DHW priority
- Auto or manual reset low water cutoff
- Auto auxilliary high limit
- · Step-opening redundant gas valve
- · Spark ignition with continuous retry
- . User-friendly wiring with 120V J-box
- · Circulator with piping with wiring harness
- · Cast iron section assembly
- · Resettable blocked vent switch
- · Boiler drain valve
- Cast iron supply manifold with safety relief valve tapping

| Series 3 Ratings & Specifications | | | | | | | | | | | |
|-----------------------------------|-----------------------------|--|--|-------|-----------------------|--|--|--|--|--|--|
| Model* | Input ¹ (MBH) | DOE Heating Capacity ¹ (MBH) | Net AHRI Rating, Water ^{1,2} (MBH) | AFUE% | Vent Size (Inches) | Approx. Shipping Weight. (Ibs.) | | | | | |
| 303 | 70 | 59 | 51 | 84.0 | 4 | 254 | | | | | |
| 304 | 105 | 88 | 77 | 84.0 | 5 | 301 | | | | | |
| 305 | 140 | 117 | 102 | 84.0 | 6 | 353 | | | | | |
| 306 | 175 | 146 | 127 | 84.0 | 6 | 405 | | | | | |
| 307 | 210 | 176 | 153 | 84.0 | 7 | 464 | | | | | |
| 308 | 245 | 205 | 178 | 84.0 | 7 | 514 | | | | | |
| 309 | 280 | 234 | 203 | 84.0 | 8 | 564 | | | | | |

- * Add suffix "N" for natural gas, or suffix "L" for LP gas models
- Ratings shown are based on certification up to 2,000 ft. Above 2,000 ft. ratings decrease by 2.5% per 1,000 ft. above sea level. Altitude kits required above 5,400 ft. See altitude conversion kits below.
- Net AHRI Water Ratings shown based on a piping and pickup allowance of 1.15. Consult manufacturer before selecting boiler fo installations having unusual piping and pickup requirements, such as intermittent system operation, extensive piping systems, etc.
- 3. All boilers ship with 30 psi relief valve. MAWP is 50 psi.

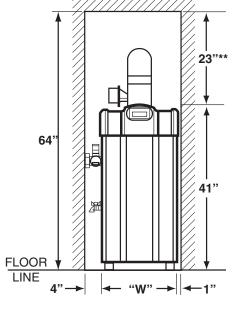
| Series 3 Dimensions & Connections | | | | | | | | | | | | |
|-----------------------------------|--------|-----------|-------|----------------------|--------|-------|--------|---------|--|--|--|--|
| | Dimen | sions (in | ches) | Connections (inches) | | | | Water | | | | |
| | | | | | _ | Gas | Relief | Content | | | | |
| Model | Width | Height | Depth | Supply | Return | Valve | Valve | (gal.) | | | | |
| 303 | 12-3/4 | 41 | 33 | 1-1/4 | 1-1/4 | 1/2 | 3/4 | 2 | | | | |
| 304 | 15-1/2 | 41 | 33 | 1-1/4 | 1-1/4 | 1/2 | 3/4 | 3 | | | | |
| 305 | 18-1/2 | 41 | 33 | 1-1/4 | 1-1/4 | 1/2 | 3/4 | 4 | | | | |
| 306 | 21-1/2 | 41 | 33 | 1-1/4 | 1-1/4 | 1/2 | 3/4 | 5 | | | | |
| 307 | 24-3/4 | 41 | 33 | 1-1/4 | 1-1/4 | 3/4 | 3/4 | 6 | | | | |
| 308 | 27-3/4 | 41 | 33 | 1-1/4 | 1-1/4 | 3/4 | 3/4 | 7 | | | | |
| 309 | 30-3/4 | 41 | 33 | 1-1/4 | 1-1/4 | 3/4 | 3/4 | 8 | | | | |

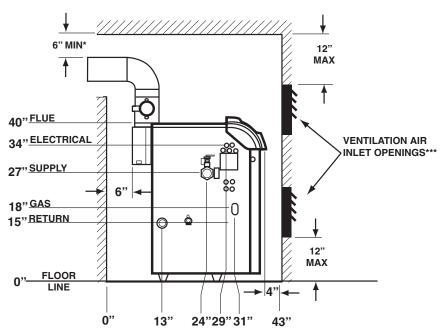
Accessories

- Altitude conversion kit natural gas (P/N: 112461-01)
- Altitude conversion kit LP gas (P/N: 112462-01)

NOTES:

Required above 5,400 ft., kits do not convert gas type





NOTES:

CAUTION: Chimney liner may be required by code requirements

- * Minimal radial distance around vent pipe and breeching
- ** Add height required to maintain 6" clearance from all breeching components
- *** Area of each opening 1 sq. inch for each 1,000 BTUH input with minimum of 100 sq. inches. Height of opening should be half the width.

